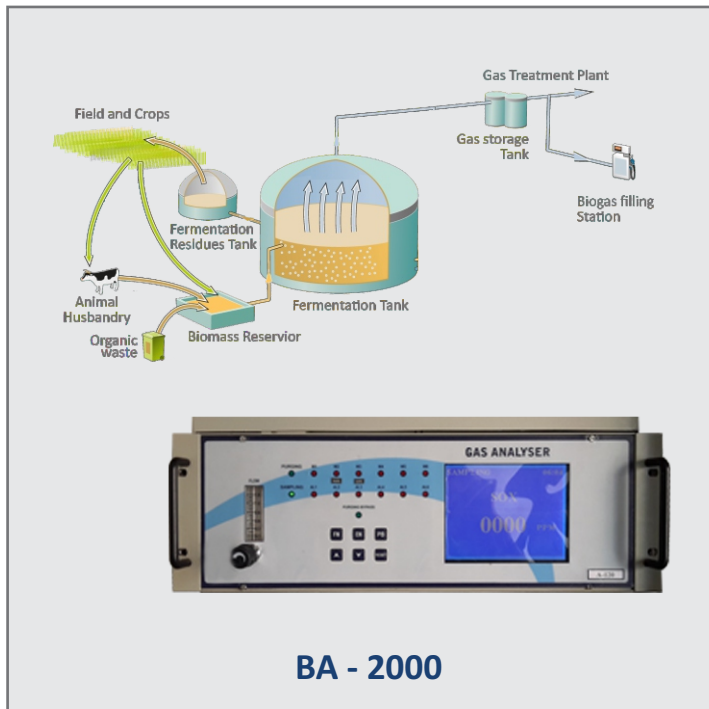


FIXED GAS ANALYZER

A COMPACT RUGGED & INTELLIGENT INSTRUMENT FOR ANALYSIS OF PROCESS GASES IN BIOGAS PLANTS CH₄, CO₂, H₂S & O₂



ONLINE BIOGAS ANALYZER

MODEL NO.: BA 2000

A continuous surveillance of the produced biogas is necessary to efficiently control the production process of a biogas plant. Methane (CH₄), residual Oxygen (O₂), Carbon dioxide (CO₂) & Hydrogen sulphide (H₂S) in the gas stream can be measured simultaneously or singularly. Its simple automatic operation, continuous measurement and digital display of gas, make it a valuable aid for on-site instant analysis and follow-up action. Its datalogging and the computer interface facility is helpful for further detailed analysis in laboratory.

BA-2000 series microprocessor based controller analyzer, a unique blend of proven technology, innovative NDIR sensor and powerful software possesses unparalleled performance capabilities and virtually eliminates the need of calibration gases. It is equipped with battery backup for RAM and retains the set modes even in case of power failure. Its complete automatic operation, graphic LCD display and its self diagnostic check features makes it completely un-attended. It is embedded with powerful software capable of performing and controlling its various functions, as well as computing the complex parameter.

SPECIAL FEATURES

- Alarms for low, high and specific fault
- Complete automatic operation, self diagnostic check
- Mere 6 keys to operate complete instrument
- Application specific proven sensor technologies
- Electrochemical sensor for O₂, not poisoned with CO₂
- Graphic display, date & time stamp, suction sampling
- Specific sensor as per the measuring gas and range
- Data logging and analog / digital output capability
- Custom sample conditioning system

APPLICATIONS

- Process surveillance of the fermentation of biogas.
- Optimization of the calorific value
- Protection of the gas turbines from high hydrogen sulphide concentrations
- Differing customer specific measuring requirements upon request
- Quality control of biogas fed into commercial gas distribution network

SPECIFICATIONS

Type	: Rack / panel mount
Detectable gases / parameters	: CH ₄ , CO ₂ , H ₂ S, H ₂ and O ₂
Electronics / processor	: Micro-controller
Power supply	: 230 V AC
Display	: Graphic LCD
Alarm	: Controlled alarms
Output	: 4 - 20 mA Standard, Individual relay, potential free contacts to control alarms
Digital Output	: RS 232/RS 485, MODBUS
Technology	: EC / IR / TCD / CC
Resolution	: 1 mg/m ³ / 1 %V/V / 1 %LEL / 1 PPM
Accuracy	: ± 2 % for other & 0.5 % for O ₂
Response time	: Less than 30 sec, sensor dependent
Ambient operating temperature	: 0 to 55 °C
Sampling / input	: Direct plug-in through sampling system
Housing / case enclosure	: Plastic / NEMA IP 65
Optional accessories	: Sampling system, Add-on sensor for diffusion / sampling probe
Applications	: Biogas process surveillance, gas engine monitoring, methane yield
Humidity	: 5% to 90% non-condensing
External dimension	: 225 x 106 x 40 mm approximately
Weight	: 750 gm (gross)
Warm-up time	: 10 minutes
Pressure	: Less than 1.5 Kg / cm ³

GASES AND RANGES

1.	CH ₄	: 0 - 100	%V/V
2.	H ₂	: 0 - 100	%V/V
3.	CO ₂	: 0 - 100	%V/V
4.	H ₂ S	: 0 - 1000 / 10000	PPM
5.	O ₂	: 0 - 25 / 0 - 100	%V/V

Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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